

AMENDMENTS TO THE CLAIMS

Please cancel all claims. Please add the following new claims 103-105.

Claims 1-102 are cancelled.

103. (new) An olefin homopolymer, the polymer having:
- A. a melt flow ratio, $I_{10}/I_2, \geq 5.63$,
 - B. a molecular weight distribution, M_w/M_n , defined by the equation:
$$M_w/M_n \leq (I_{10}/I_2) - 4.63, \text{ and}$$
 - C. a critical shear stress at onset of gross melt fracture greater than about 4×10^6 dyne/cm².
104. (new) An olefin homopolymer, the polymer having:
- A. a melt flow ratio, $I_{10}/I_2, \geq 5.63$, and
 - B. a molecular weight distribution, M_w/M_n of from about 1.5 to about 2.5.
105. (new) An olefin homopolymer, the polymer having:
- A. from about 0.01 to about 3 long chain branches/1000 carbons, and
 - B. a critical shear stress at onset of gross melt fracture of greater than about 4×10^6 dyne/cm².